

DIGITAL 900MHZ
CORDLESS PHONE
With Speakerphone
MODEL VT 1940

VT 1940



VTECH COMMUNICATIONS LTD.



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IMPORTANT :
BEFORE USING YOUR NEW PHONE WE STRONGLY
RECOMMEND YOU READ THIS MANUAL THOROUGHLY.



VTECH COMMUNICATIONS LTD.

INSTRUCTION
manual

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INTRODUCTION

Congratulations! You have purchased one of the most sophisticated cordless telephones on the market! The VTech VT 1940 has been designed to offer a new standard in cordless telephone technology.

Unlike most other cordless phones, the VTech VT 1940 digitizes your voice using advanced ADPCM digital voice coding to provide noise and distortion free performance. In most conditions, you will not be able to tell you are using a cordless phone. Gone are the annoyances of static, interference and having to listen to other people's conversations on your cordless phone.

The VTech VT 1940 scrambles your voice before it transmits it. This allows you the security of knowing that no one can tune in and eavesdrop on your conversations.

With the VTech VT 1940, the user can easily answer a call by pressing any key other than the OFF, MUTE or VOLUME Keys. In addition, the handset keypad and display illuminate while the handset rings to signal an incoming call. This is very useful in a dark environment.

The VTech VT 1940 also provides a two-way Intercom/Handset locator function.

The VTech VT 1940 uses special memory in both the base and handset which is not susceptible to power failures. This provides permanent storage of all memory dial numbers, as well as the base and handset security codes.

When an optional battery pack is installed in the base unit, the VTech VT 1940 uses this battery pack to provide operational backup in case of power failure. In this way you have access to Handset functions during a total power outage. Calls can still be placed and received on the Handset without interruption. Up to 5 hours backup will be possible with a fully charged battery pack in the base unit.

The VTech VT 1940 informs you when another extension is currently in use on the same phone line. The phone will also alert you when you are Out of Range, even when you're not using the phone!

INTRODUCTION

Special Features

- 900 MHz Operation.
- Fully Digital Link between Handset and Base .
- Digitally-Scrambled Voice Communication.
- Speakerphone with second keypad in Base Unit.
- 21 location Programmable Memory for 20 Digit Phone Number.
- 10 Channel operation with auto channel selection.
- Out-of-Range indication while the handset is in use or in standby mode.
- Removable handset battery pack.
- Spare battery charger in the base unit.
- Battery back-up in case of power failure (with optional spare battery pack installed in base).
- Face up or Face down Handset charging.
- Easy answer - When the phone rings, simply press any key other than OFF, MUTE, or the Volume Keys on the handset to answer.
- Auto hang up when returning the handset to the base cradle.
- Extension in use indicator.

- Auto line drop from HOLD when an extension phone is picked up.
- 24 Bit Digital Security Code.
- Tone and Pulse Dialling.
- Low Battery Detect and Warning indicator.
- Up to 7 hours continuous talk time or 7 days standby time.
- Volume Adjust on Handset and Base Unit.
- HOLD, FLASH, MUTE and RE-DIAL.
- Hearing-Aid Compatible Receiver.
- Detachable power supply.
- Non-volatile storage of security code and memory dial records.

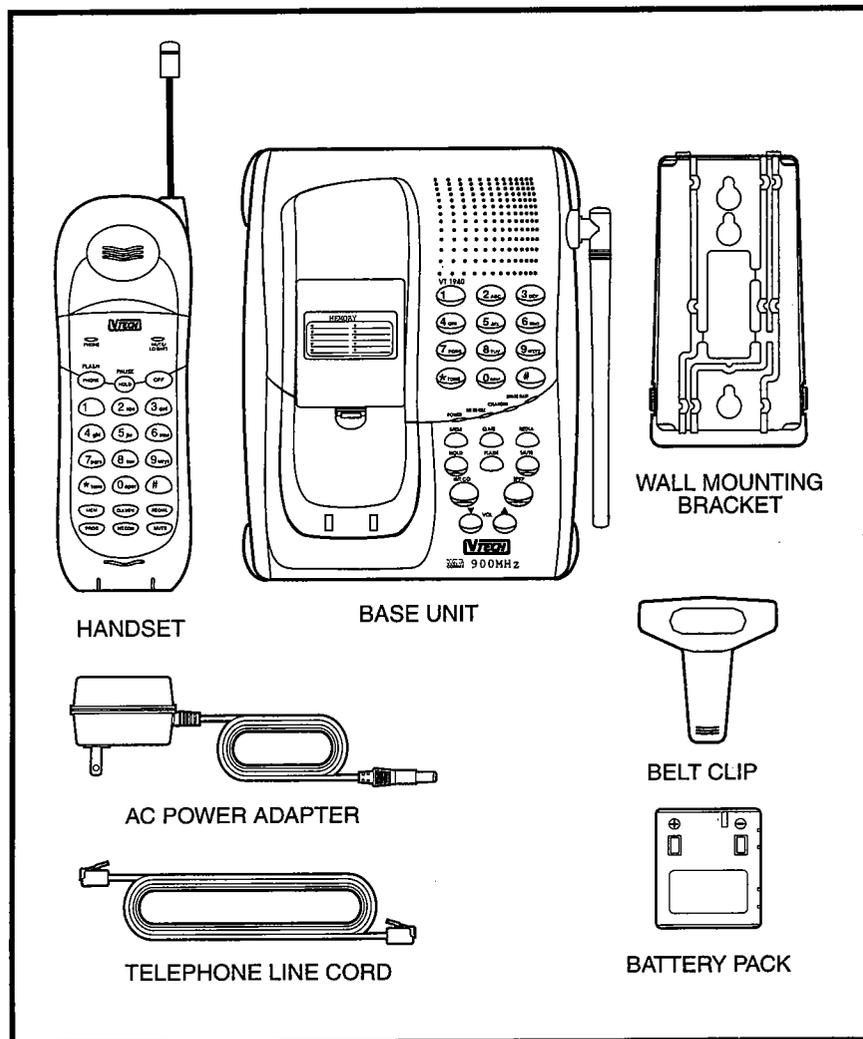
This manual is designed to make you familiar with the VTech VT 1940. We strongly recommend you read the manual before using your phone.

INTRODUCTION

Parts Check List

1. Handset
2. Base Unit
3. Wall mounting bracket
4. AC power adapter
5. Belt clip
6. Battery pack
7. Telephone line cord

To purchase replacement battery packs, call VTECH Communications at 1-800-595-9511. In Canada, call VTECH Electronics at 1-800-267-7377.



FCC and IC Regulations

This equipment complies with Parts 15 and 68 of the Federal Communications Commission (FCC) rules for the United States. It also complies with regulations RSS210 and CS-03 of Industry and Science Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

A label is located on the underside of the base unit containing either the FCC registration number and Ringer Equivalence Number (REN) or the Industry Canada (IC) registration number and Load Number. You must, upon request, provide this information to your local telephone company.

This equipment is compatible with inductively coupled hearing aids.

Should you experience trouble with this telephone equipment, please contact:

VTECH COMMUNICATIONS
SERVICE DEPT. at 1-800-595-9511.
In Canada, call VTECH Electronics at 1-800-267-7377.

For repair/warranty information. The telephone company may ask you to disconnect this equipment from the line network until the problem has been corrected.

FCC Part 15

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance's could void the user's authority to operate the equipment.

The equipment has been tested and found to comply with part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet or on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC and IC Regulations

FCC Part 68

The FCC requires that you connect your cordless telephone to the nationwide telephone network through a modular telephone jack (USOC RJ11C, RJ11W or RJ14).

Your telephone company may discontinue your service if your equipment causes harm to the telephone network. They will notify you in advance of disconnection, if possible. During notification, you will be informed of your right to file a complaint with the FCC.

Occasionally, your telephone company may make changes in its facilities, equipment, operation, or procedures that could affect the operation of your equipment. If so, you will be given advance notice of the change to give you an opportunity to maintain uninterrupted service.

The base unit contains no user serviceable parts. The handset contains a user replaceable battery pack.

If it is determined that your telephone equipment is malfunctioning, the FCC requires that it not be used and that it be unplugged from the modular jack until the problem has been corrected. Repairs to this telephone equipment can only be made by the manufacturer or its authorized agents or by others who may be authorized by the FCC. For repair procedures, follow the instructions outlined under the VTECH Limited Warranty.

This equipment may not be used on coin service provided by the phone company or Party Lines.

The REN is useful in determining the number of devices you may connect to your telephone line and still enable the devices to ring when you receive a call. The general rule is that the REN value should not exceed 5.0A total; however, contact your local telephone company for the specific number in your area.

IC (Industry Canada)

This telephone is registered for use in Canada.

Notice: The REN assigned to this device denotes the number of devices you may connect to the telephone loop, which is used by the device to prevent overloading. The termination on a loop may consist of any combination of devices subjected only to the requirement that the sum of the REN does not exceed five (5.0)

Notice: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

FCC and IC Regulations

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of services in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate.

Your VTech VT 1940 is designed to operate at the maximum power allowed by the FCC and IC. This means your handset and base unit can communicate only over a certain distance - which will depend on the location of the base unit and handset, weather, and the construction and layout of your home or office.

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

1. Read and understand all instructions.
2. Follow all warnings and instructions marked on the product.
3. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use this product near water (for example, near a bath tub, kitchen sink, or swimming pool).
5. Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious damage to the product.
6. Slots and openings in the cabinet and the back or bottom are provided for ventilation. To protect it from overheating, these openings must not be blocked by placing the product on the bed, sofa, rug, or other similar surface. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation where proper ventilation is not provided.
7. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your dealer or local power company.
8. Do not allow anything to rest on the power cord. Do not locate this product where the cord will be abused by persons walking on it.
9. Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a risk of fire or electric shock. Never spill liquid of any kind on the product.
10. To reduce the risk of electric shock, do not disassemble this product, but take it to a VTech authorized service facility. Opening or removing cabinet parts other than specified access doors may expose you to dangerous voltages or other risks. Incorrect reassembling can cause electric shock when the appliance is subsequently used.
11. Do not overload wall outlets and extension cords as this can result in the risk of fire or electric shock.

IMPORTANT SAFETY INSTRUCTIONS

12. Unplug this product from the wall outlet and refer servicing to a VTech authorized service facility under the following conditions:

- A. When the power supply cord or plug is damaged or frayed.
- B. If liquid has been spilled into the product.
- C. If the product has been exposed to rain or water.
- D. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, because improper adjustment of other controls may result in damage and will often require extensive work by a VTech authorized technician to restore the product to normal operation.

E. If the product has been dropped and the cabinet has been damaged.

F. If the product exhibits a distinct change in performance.

13. Avoid using a telephone (other than a cordless type) during an electrical storm. There may be a remote risk of electric shock from lighting.

14. Do not use the telephone to report a gas leak in the vicinity of the leak.

VTECH COMMUNICATIONS
SERVICE DEPT. at 1-800-595-9511.
In Canada, call VTECH Electronics at
1-800-267-7377.

SAVE THESE INSTRUCTIONS

REPLACING THE BATTERY PACK

Charging The Handset Battery Pack

The handset of your VTech VT 1940 cordless telephone is powered by a rechargeable battery pack. It charges automatically whenever the handset is in the base. You should charge the battery pack for 16 hours when you first receive your phone. You'll know the battery pack needs charging when:

- The phone emits a warning tone when you press the PHONE key.
- The MUTE/LOW BATT LED is slowly flashing.
- The handset seems completely dead and does not beep when you press the keys.

To Charge The Battery Pack

To charge the battery pack, place the handset in the base unit. The charging indicator will light to show the handset is seated properly and the battery pack is charging. It is recommended that the battery pack be charged for at least 16 hours initially and 8 hours for maintenance charging. You can use your telephone before that with diminished capacity, but it is best to charge the battery pack fully. It will take several recharge cycles to maximize the charge capacity of your battery pack. The maximum battery life between charges is 7 hours of continuous talk time or 7 days of stand-by.

Alternatively, if you have purchased a spare battery pack and it has been charging in the base unit, simply exchange the drained handset battery pack with the fully charged replacement battery pack from the base charger. Place the drained handset battery pack into the base charger to recharge.

The base spare battery charger does NOT charge a battery pack as quickly as the handset battery charger. A full charge requires 24 hours when using the spare battery charger.

It's Impossible To Overcharge The Battery Pack

The battery pack can be recharged many times, but if you get a low battery message even after 16 hours of charging in the base cradle (or 24 hours in the base spare battery charger), the battery pack(s) should be replaced.

To purchase replacement battery packs, call VTECH Communications at 1-800-595-9511. In Canada, call VTECH Electronics at 1-800-267-7377.

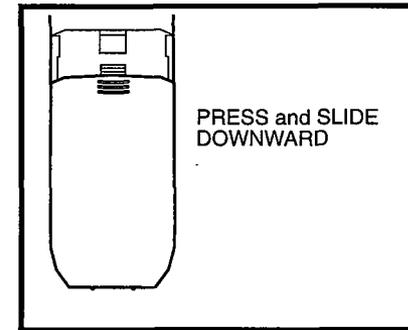
A Word About Rechargeable Batteries

Your Nicad battery pack recharges whenever the Handset is returned to the Base Unit cradle. You may return the Handset to its cradle whenever you're not using the phone.

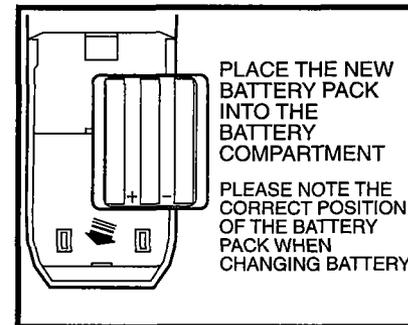
REPLACING THE BATTERY PACK

To Replace The Handset Battery Pack Follow The Steps Below:

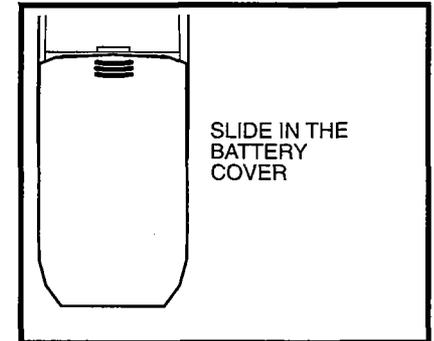
1. Remove the battery case cover by pressing on the ridged lines and sliding downward.



2. Discard the old battery pack. Don't put the old battery pack in a trash compactor or a fire - it could burst.
3. Place the new battery pack in its housing with the metal contacts facing down.



4. Replace the battery case cover by sliding the cover upwards.



5. If the new battery pack is not already charged, place the handset in the cradle of the base unit to allow it to charge for 16 hours.

CAUTION:
To Reduce the Risk of Fire or Injury to persons, read and Follow the Instructions

1. Use only VTECH rechargeable battery pack.
2. Do not dispose of the battery in a fire. The cell may explode.

IMPORTANT:
Do not dispose of this battery into household garbage. For information on recycling or proper disposal, consult your local solid waste collection or disposal organization.

3. Do not open or mutilate the battery. Released electrolyte is corrosive and may cause damage to the eyes or skin. It may be toxic if swallowed.
4. Exercise care in handling batteries in order not to short the battery with conducting materials such as rings, bracelets, and keys. The battery or conductor may overheat and cause burns.

REPLACING THE BATTERY PACK

To purchase replacement battery packs, call VTECH Communications at 1-800-595-9511. In Canada, call VTECH Electronics at 1-800-267-7377.

Spare Battery Charger

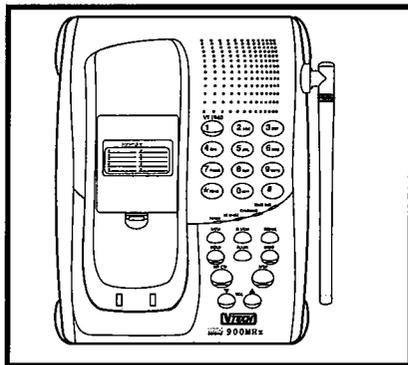
The VT 1940 has a built-in spare Battery Charger, which is located in the cradle of the Base Unit.

NOTE:

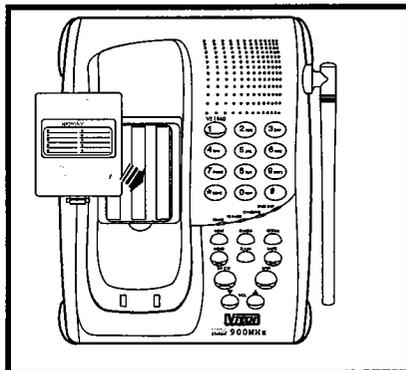
In order to benefit from this feature, you must obtain an optional Spare Battery from an authorized VTEch dealer, or by contacting VTEch Customer Service at 1-800-595-9511.

Installation

Remove the Spare Battery charger cover by pressing the release tab and lifting up.



Place a battery pack in the Spare Battery charger. Make sure the metal charging contacts on the underside of the battery pack are aligned with the charging contacts in the Spare Battery charger.



Power Backup

When a Spare Battery pack is installed in the Base Unit, the VTEch VT 1940 uses this battery pack to provide operational backup in case of a power failure. If you have a fully charged battery pack in the Spare Battery pack charger and there is a power outage, you will still be able to place and receive calls on the Handset for up to five hours.

Note:

During Power Backup mode the Base Unit telephone functions are not operable.

Replacing a Drained Handset battery

The Spare battery pack can also be used to replace a drained Handset battery pack to ensure uninterrupted use. Be sure to put the drained battery pack in the Spare Battery charger for recharging.

Please note that the Spare Battery compartment charges at a slower rate than a battery pack charging in the Handset. It takes 24 hours to fully charge a battery pack in the Spare Battery charger.

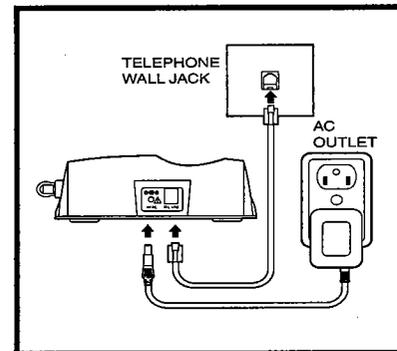
GETTING STARTED

Setting Up Your VTEch VT 1940

Choose an area near an electrical outlet and a telephone wall jack.

AC Power Adapter

Plug the AC power adapter into an electrical outlet and the DC connector to the back of the base unit.



CAUTION:

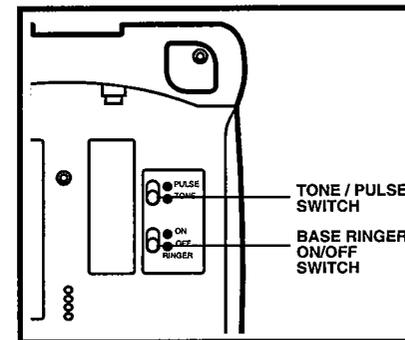
Use only CLASS 2 9V DC POWER SUPPLY included with your phone.

Handset Ringer

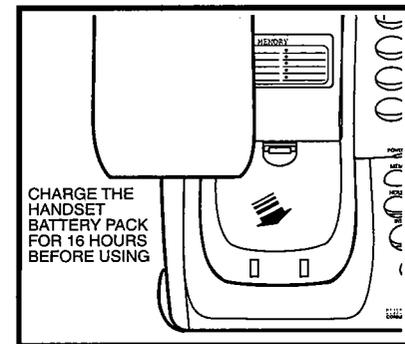
The handset ringer is programmed ON as the factory default setting. Refer to PROGRAMMING THE RINGER for more information.

Setting the Tone/Pulse Switch

The TONE/PULSE switch is located on the bottom of the base unit and is factory set to TONE. If you have touch tone service, do not change the switch setting. If you have rotary (Pulse) service, set the switch to PULSE.



Charge the handset battery pack before use. The battery pack recharges automatically whenever the handset is in the base unit. The batteries must be charged for 16 hours before using your phone for the first time.



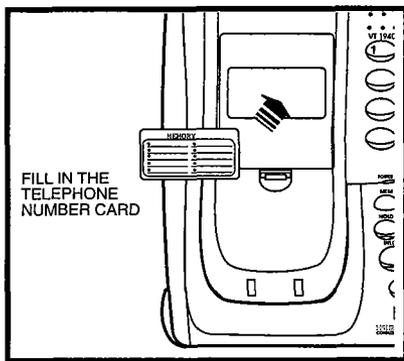
Connect Telephone Line Cord

Plug one end of the telephone cord into a wall jack and the other end into the back of the Base Unit.

GETTING STARTED

Check for a dial tone. After the battery pack is charged, rotate the Base Unit antenna to an upright position. Pick up the Handset and press **(PHONE)**. You will hear a dial tone. If not, see 'IN CASE OF DIFFICULTY'.

Fill in the telephone number card on the base unit.



CAUTION:

1. Never install telephone wiring during a lightning storm.
2. Never install telephone jacks in wet locations unless the jack is specifically designed for wet locations.
3. Never touch uninsulated telephone wires or terminals unless the telephone line has been disconnected at the network interface.
4. Use caution when installing or modifying telephone lines.

WALL MOUNTING

The Wall Mounting bracket is designed to fit on standard Wall Mounting plates.

1. Choose a spot near an electrical outlet and a telephone jack.

Your phone requires a modular telephone jack and a standard electrical outlet (120v AC). The power cord is six feet long; make sure there is an electrical outlet within reach of the base. The outlet should not be controlled by a wall switch. If the switch is ever turned off, the phone will not operate.

2. Position the wall mounting bracket on the base.

Line up the tabs on the wall mounting adapter with the holes on the bottom of the base (Figure 1). Snap the wall mounting bracket firmly in place.

3. Mount the base on the wall.

Position the base so the mounting studs will fit into the holes on the bottom of the base. Position the power cord to extend down the wall the phone is to be mounted on. Slide the base down on the mounting studs until it locks into place.

4. Connect the telephone line cord.

The telephone line cord has a snap-in plug at each end. Insert one of the plugs into the jack on the back of the base. Insert the other end of the plug into the wall jack.

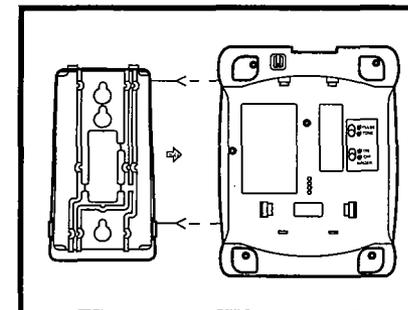


Figure 1

5. Plug the AC adapter into an electrical outlet and the DC connector into the power jack located on the back of the Base Unit . (Figure 2)

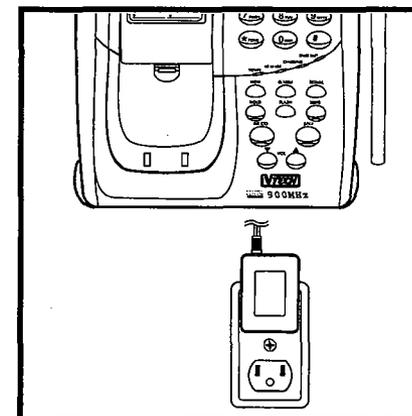
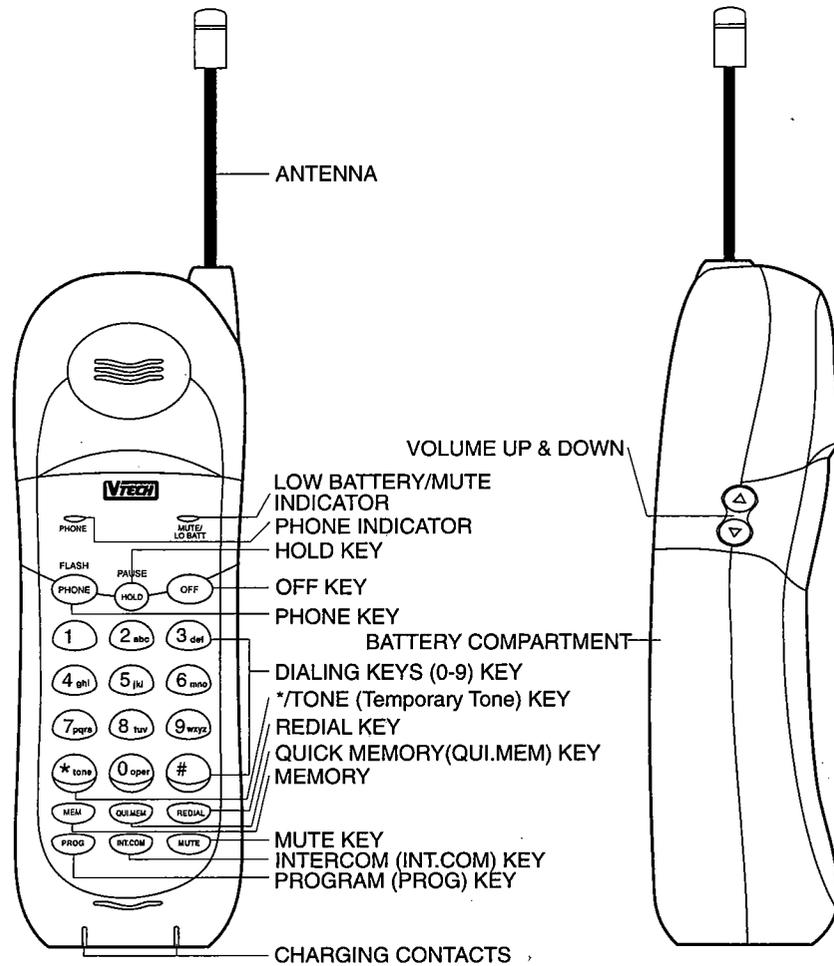
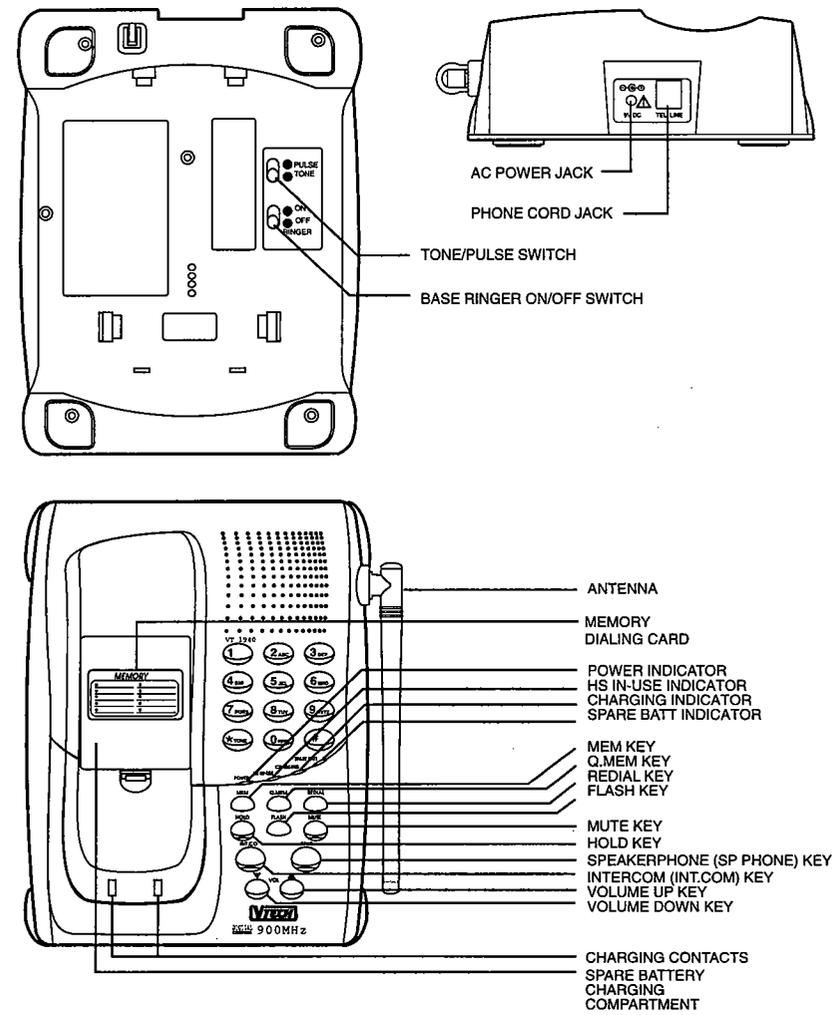


Figure 2

THE HANDSET LAYOUT



THE BASE UNIT LAYOUT



BASE UNIT FEATURES

POWER Indicator

Glow when the power supply is plugged in and power is applied to the Base Unit.

HS IN-USE Indicator

Glow when the Handset has been activated.

CHARGING Indicator

Glow when the Handset is placed in the Base Unit cradle. If there is no battery pack in the Handset, the **CHARGING LED** will flash slowly.

SPARE BATT Indicator

Glow when an optional battery pack is installed in the Base Unit charger.

HOLD Indicator

Glow when an active call is placed on **HOLD**.

MUTE Indicator

Glow when the Base Unit **MUTE** key is pressed during an active call.

INT.COM Indicator

Glow when the Base Unit is in **INTERCOM** mode with the Handset.

SPEAKERPHONE (SP PHONE) Indicator

Glow when the Base Unit Speakerphone is active.

Flashes slowly to indicate that an extension phone is in use.

Flashes in cadence with the incoming ring.

BASE UNIT FUNCTION KEYS

Speakerphone (SP PHONE) Key

Press this key to either initiate or answer a call from the Base Unit Speaker. Press it again to terminate your call.

Volume (VOL) Key

Press the appropriate key to raise or lower the Speakerphone volume level. Holding down the key will continuously raise or lower the volume. There are a total of **8** volume levels.

Base Ringer ON/OFF Switch

Located on the bottom of the Base Unit, this switch controls the Base Unit ringer. It has no effect on the Handset ring.

TONE/PULSE Switch

Located on the bottom of the Base Unit, set this switch consistent with your local phone system. In most cases, the appropriate setting is **TONE(TT)**.

Memory (MEM) Key

Press this key to enter Memory (Speed) Dialing Mode.

Quick Memory (Q.MEM) Key

Press this key to dial the contents of memory location **#00**. The Base speakerphone can be either **ON** or **OFF** to use this feature.

REDIAL Key

Press this key to redial the last number you dialed from the Base Unit. This feature is independent of the Handset redial feature.

HOLD Key

Press this key to place your Speakerphone call on hold. Press either **(HOLD)** or **(SP PHONE)** to return to the call.

With a Speakerphone call on **HOLD**, picking up an extension phone, or activating the VT 1940 Handset will turn the Speakerphone **OFF**.

FLASH Key

During a Speakerphone call, press this key to flash the line. The feature is commonly used in conjunction with Call Waiting.

MUTE Key

Press this key to mute the Base Unit microphone during a Speakerphone call. Press **(MUTE)** again to return to the 2-way conversation.

Intercom (INT.COM) Key

Press this key to page the Handset. The Handset will ring 5 times. The Handset user can respond by pressing **(INT.COM)**. The Handset and Base Unit have now entered 2-way **INTERCOM** mode.

Press **(INT.COM)** to terminate **INTERCOM** mode.

This feature is also useful as a Handset locator in the event it is misplaced.

QUICK REFERENCE GUIDE

Set-Up

- Plug AC adapter into a standard electrical outlet and Base Unit.
- Set **TONE/PULSE** switch to **PULSE** or **TONE**. The unit is factory set to **TONE**.
- Let the handset battery pack charge for 16 hours before first use.
- Connect telephone line cord to base unit and telephone jack.

Making Calls

- Press the **PHONE** key and dial the number.
- OR
- Press **SP PHONE** on the Base Unit, then dial the number.

Answering Calls

- To answer a call, press any key other than **OFF**, **MUTE**, or the Volume Keys.
- OR
- Press **SP PHONE** on the Base Unit.

Hanging Up

- Press **OFF** or place the handset in the cradle to hang up a call.

To Place A Call On Hold

- Press **HOLD** on the Handset or Base Unit to place an active call on **HOLD**.
- To return to the call on the Handset, press **PHONE**.
- To return to the call on the speakerphone, press either **HOLD** or **SP PHONE**.

To Mute A Call

- Press **MUTE** to disable the Handset or Base Unit microphone.
- Press **MUTE** again to return to normal two way conversation.

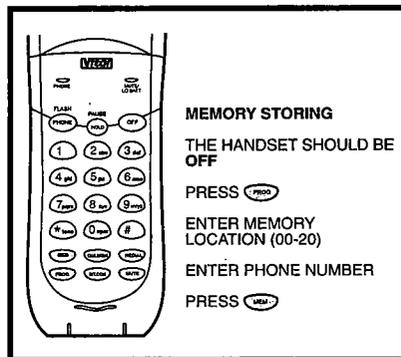
To Page The Handset

- To page from the base, press **INT.COM**.
- To cancel the **PAGE** either press **INT.COM** again on the base or press **OFF** on the handset.

STORING MEMORY DIAL NUMBERS

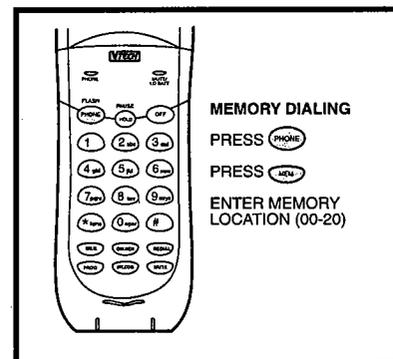
From the Handset:

- The handset should be **OFF**.
- Press **PROG**.
- Enter the two digit memory location (00..20).
- Enter the number you wish to store, up to a maximum of 20 digits.
- Press **MEM** to store number and exit program mode.



QUICK REFERENCE GUIDE

Memory Dialing (speed Dialing):



From the Handset

- Press the **PHONE** key.
- Press **MEM**.
- Enter the memory location of the phone number you wish to dial (00...20). The number will be dialed.

From the Base Unit

- Press the **SP PHONE** key.
- Press **MEM**.
- Enter the memory location of the phone number you wish to dial (00..20). The number will be dialed automatically. The number stored in memory location 00 can also be dialed simply by pressing the **Q.MEM** key on the Base Unit, or Handset.

Using REDIAL From the Handset:

- Press the **PHONE** key, then **REDIAL** to automatically redial the last number you dialed.

From the Base Unit :

- Press the **SP PHONE** key, then **REDIAL**.

HOLD

From the Handset :

- Press **HOLD** to put a call on hold.
- To return to the call, press **HOLD** or the **PHONE** key.

From the Base Unit :

- Press **HOLD** to put a call on hold.
- To return to the call, press **HOLD** or the **SP PHONE** key.

EXTENSION IN USE

From the Handset:

- The IN USE LED will flash slowly to indicate that another phone (extension) is being used.

From the Base Unit:

- The SP PHONE LED will flash slowly to indicate that another phone (extension) is being used.

BASIC OPERATION

Making Calls

From the Handset:

Press the **PHONE** key and wait for dial tone. Then dial the number you want.

If you make a mistake when dialing, press **OFF** to hang up, then press the **PHONE** key to get the dial tone again.

From the Base Unit:

- Press the **SP PHONE** key and wait for dial tone. Then dial the number you want.

Disconnecting

To end a call, either place the handset back in the base, press **OFF** on the handset, or press **SP PHONE** on the Base Unit (for speakerphone calls).

Answering Calls

From the Handset:

Press any key other than **OFF**, **MUTE** or the VOLUME keys to answer your call.

From the Base:

Press the **SP PHONE** key.

VOLUME Controls

The volume controls for the handset are located on the side of the unit. Press the (up) or (down) keys to increase or decrease the volume. Holding either key down will continuously change the volume setting. The base speakerphone has separate volume controls.

FLASH

You can use your VTech VT 1940 cordless phone with services such as Call Waiting. Simply press the **PHONE** key to FLASH the line.

REDIAL

To **REDIAL** the last number you

dialled, press the **PHONE** key, then press **REDIAL**. The phone will automatically dial the number.

MUTE

- Press **MUTE** during an active call to disable the microphone.
- Press **MUTE** again to return to normal operation.

Ringer MUTE

- Press **MUTE** during incoming ringing to disable the ringer for the duration of the call.

HOLD

- Press **HOLD** on the Handset or Base Unit to place an active call on hold
- To return to the call on the Handset, press either **PHONE** or **HOLD**.
- To return to the call on the Speakerphone, press either **HOLD** or **SP PHONE**.

With a Handset call on hold, picking up an extension phone, or activating the VT 1940 Speakerphone will turn the Handset OFF.

With a Speakerphone call on hold, picking up an extension phone, or activating the VT 1940 Handset will turn the Speakerphone OFF.

To transfer a call from the Handset to Base Unit Speakerphone, first place the Handset call on hold, then press **SP PHONE** on the Base Unit.

To transfer a call from the Base Unit Speakerphone to the Handset, first place the Speakerphone call on hold, then press **PHONE** on the Handset.

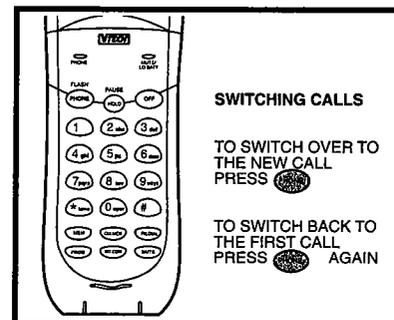
ADVANCED FUNCTIONS

Call Waiting

CALL WAITING is a subscription service, available from most local telephone service providers. While you are on a call, you will hear an alert signal, warning that a second caller is trying to reach you.

Switching calls using FLASH

- From the Handset: press the **PHONE** key. To switch to the new call. To switch back press **PHONE** again.
- From the Base Unit: press the **FLASH** key to switch to the new call. To switch back press **FLASH** again.

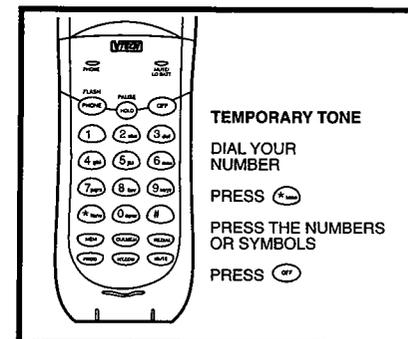


Temporary TONE

If you have rotary **(PULSE)** telephone service (switch is set to **PULSE**), this feature allows you to temporarily switch to **TONE** dialing for such purposes as remote access to answering machines, bank-by-phone services, use of calling cards and other special services.

First, dial the call normally. Then activate the Temporary Tone feature by pressing **TONE** (the * key). You can then press the numbers or symbols you need, and your phone will send the proper signals.

To end the call, press **OFF** or place the handset back in the base. If using the speakerphone, press **SP PHONE** to end the call. The phone will automatically go back to rotary **(PULSE)** service.



ADVANCED FUNCTIONS

PROGRAMMING THE RINGERS

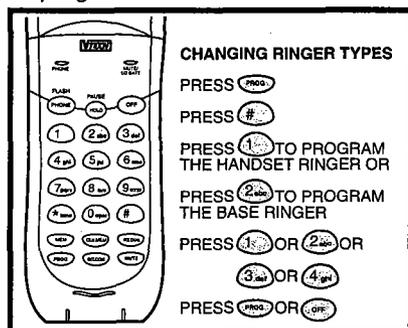
The handset ringer is capable of four different types of ringer tones. The following section details how to select different ringer types and how to turn off the handset ringer.

CHANGING RINGER TYPES

To program, the handset must be **OFF**.

To select a different ringer type do the following:

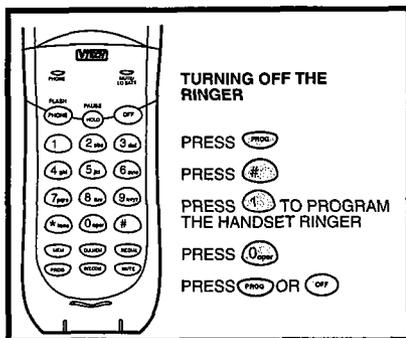
- Press **PROG**
- Press the **#** key.
- Press **1** to program the handset ringer, or press **2** to program the base ringer.
- Press:
 - 1 for ringer type 1
 - 2 for ringer type 2
 - 3 for ringer type 3
 - 4 for ringer type 4
- Press **PROG** or **OFF** to exit program mode.



TURNING OFF THE RINGERS

To turn off the handset ringer do the following:

- Press **PROG**
- Press the **#** key
- Press **1** to program the handset ringer
- Press **0**
- Press **PROG** or **OFF** to exit



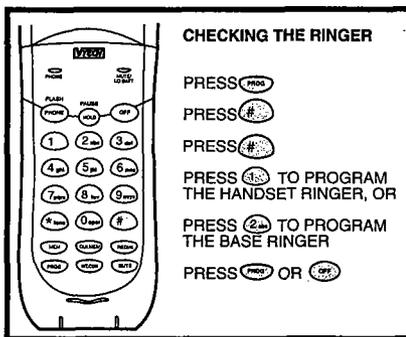
To turn off the base ringer do the following:

- Locate the RINGER ON/OFF switch on the underside of the base unit, and set switch to OFF position.

CHECKING THE RINGER TYPE

To hear the present ringer type, do the following:

- Press **PROG**
- Press the **#** key
- Press **1** to program the handset ringer, or press **2** to program the base ringer.
- Press **#** to test the ringer
- Press **PROG** or **OFF** to exit

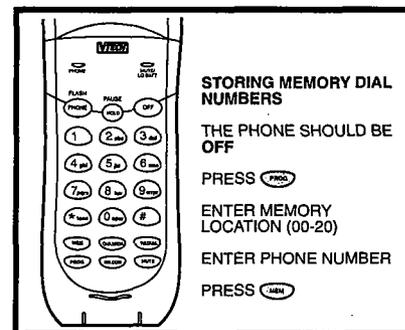


MEMORY (SPEED) DIALING

STORING SPEED DIAL NUMBERS

To program a speed dial location, do the following, from the handset:

- The phone should be **OFF**.
- Press **PROG**. The **PHONE** LED will flash quickly to indicate that the unit is in program mode.
- Enter the memory location (00..20) you wish to store the number in.
- Enter the phone number to be stored, up to a maximum of 20 digits.
- Press **MEM** to store the number and exit program mode. The unit will emit a happy tone (a short series of beeps) to confirm successful programming and exit program mode.
- If programming is unsuccessful, the unit will generate an error tone.



QUICK MEMORY DIALING

The **QUI. MEM** (from the handset) or **Q. MEM** (from the base) key gives you one button access to the MEMORY DIAL number stored in memory location 00. This may be a frequently dialed friend, business, or emergency number, such as 911.

There are two ways to dial using Quick Memory.

- Press **PHONE** or **SP PHONE**.
- Press **QUI. MEM** or **Q. MEM**.
- The phone number stored in memory location 00 will be automatically dialed.

OR

- With the phone **OFF**, press **QUI. MEM** or **Q. MEM**.
- The phone number stored in memory location 00 will be automatically dialed after a 2 second delay.

NOTE:

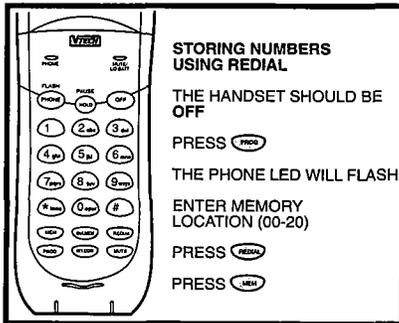
All memory locations including Quick Memory are not pre-programmed at the factory. You must program the Memory Dialing to use this function.

MEMORY (SPEED) DIALING

STORING NUMBERS USING REDIAL

To store the last number dialed into a permanent memory location, do the following, from the handset:

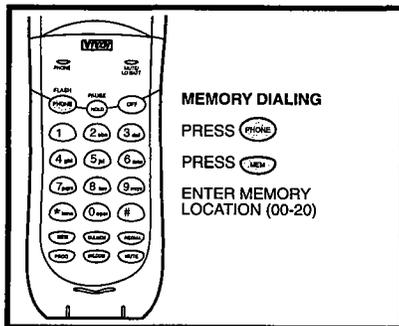
- The handset should be **OFF**.
- Press **(PROG)**. The **PHONE LED** will flash quickly to indicate the unit is in program mode.



- Enter the memory location (00..20) you wish to store the number in.
- Press **(REDIAL)**.
- Press **(MEM)** to store the number and exit program mode. The unit will emit a happy tone (a series of short beeps) to confirm successful programming.
- If programming is unsuccessful the unit will generate an error tone.

DIALING FROM MEMORY

- Press **(PHONE)** or **(SP PHONE)** to get dial tone.
- Press **(MEM)**.
- Enter a 2 digit location number (00..20)
- The number stored in that location will be automatically dialed.



MEMORY (SPEED) DIALING

CHANGING STORED NUMBERS

To change or replace a stored number, simply store a new number in the desired memory location following the instructions listed in **STORING MEMORY DIAL NUMBERS**.

DELETING STORED NUMBERS

To delete a stored number from memory do the following, from the handset:

- Press **(PROG)** to enter program mode.
- Enter the memory location (00..20).
- Press **(MEM)** to exit program mode.

If your phone is connected to a **PBX** you can store the PBX access number and a pause before the phone number. For example, to store 9-PAUSE-555-1234 in memory location 08, do the following:

- Press **(PROG)**
- Press 08 (memory location)
- Press 9
- Press **(HOLD)** (pause)
- Dial 5551234
- Press **(MEM)**



NOTE:

Stored numbers are retained in memory even if the base loses its power or the handset battery is removed.

STORING SPECIAL CODES

To insert a pause in a phone number, press **(HOLD)** at the appropriate point when entering the number. This inserts a 2 second pause. For longer pauses, press **(HOLD)** two or more times. Each press makes the pause 2 seconds longer, and is treated as a stored digit.

ADDITIONAL OPERATING TIPS

Noise Or Interference

Your VTech VT 1940 cordless telephone has auto-channel scan circuitry which will detect excess noise and change the channel of the phone to reduce it. This is done automatically.

Since the VTech VT 1940 is a fully digital phone, it does not suffer from noise associated with regular cordless phones. At times you may experience occasional "drop outs", especially at the extreme edges of the phone's range. Simply move closer to the base unit and this will disappear.

Automatic Security Coding

Your VTech VT 1940 phone is factory set with 16.8 million possible security codes. This unique security code allows your handset and base to recognize each other, and minimizes the possibility of another cordless phone using your telephone line.

Out Of Range indication

If the handset is moved to a point where the base and handset can no longer communicate, the handset will scan all channels in an attempt to re-link with the base.

Out Of Range When Phone Is On

If you are presently engaged in a phone conversation, and experience an Out of Range warning, move closer to the base. If the base unit does not communicate with the handset within 25 seconds of losing contact, it will automatically hang up.

Out Of Range When Phone Is Off

When the phone is OFF, the handset and base still monitor each other to make sure that they can communicate. If the handset is moved out of range, the handset will scan all channels in an attempt to reestablish communication with the base. This process does not require user intervention; the handset will re-link with the base automatically once it is brought back within range. The unit will then be able to receive and place calls.

MAINTENANCE

Taking Care Of Your Telephone

Your VTech VT 1940 cordless telephone contains sophisticated electronic parts, so it must be treated with care.

Avoid rough treatment

Place the handset down gently. Save the original packing materials to protect your telephone if you ever need to ship it.

Avoid water

Your telephone can be damaged if it gets wet. Do not use the handset outdoors in the rain, or handle it with wet hands. Do not install your base unit near a sink, bathtub or shower.

Electrical storms

Electrical storms can sometimes cause power surges harmful to electronic equipment.

For your own safety, use caution when using electric appliances during storms.

Cleaning your telephone

Your telephone has a durable plastic casing that should retain its luster for many years. Clean it only with a soft cloth slightly dampened with water or a mild soap. Do not use excess water or cleaning solvents of any kind.

Remember that electrical appliances can cause serious injury if used when you are wet or standing in water. If your base unit should fall into water, **DO NOT RETRIEVE IT UNTIL YOU UNPLUG THE POWER CORD AND TELEPHONE LINE CORDS FROM THE WALL.** Then pull the unit out by the unplugged cords.

IN CASE OF DIFFICULTY

If you have difficulty operating your phone, the suggestions below should solve the problem. If you still have difficulty after trying these suggestions, call VTECH Communications at 1-800-595-9511. In Canada, call VTECH Electronics at 604-273-5131.

THE PHONE DOESN'T WORK AT ALL.

- Make sure the Power Cord is plugged in.
- Make sure the telephone line cord is plugged firmly into the base unit and the telephone wall jack.
- Make sure the batteries are properly charged.

NO DIAL TONE.

- First check all the suggestions above.
- If you still don't hear a dial tone, disconnect the base unit from the telephone jack and connect a different phone. If there is no dial tone on that phone either, the problem is in your wiring or local service. Call your local telephone company.

YOU GET NOISE, STATIC, OR A WEAK SIGNAL EVEN WHEN YOU'RE NEAR THE BASE UNIT.

- Household appliances plugged into the same circuit as the base unit can sometimes cause interference. Try moving the appliance or the base unit to another outlet.

YOU GET NOISE, STATIC, OR A WEAK SIGNAL WHEN YOU'RE AWAY FROM THE BASE UNIT.

- You may be out of range. Either move close to the base, or relocate the base unit.
- The layout of your home may be limiting the range. Try moving the base unit to another position.

THE HANDSET DOES NOT RING WHEN YOU RECEIVE A CALL.

- Make sure you have the handset ringer activated. To set the ringer, see "PROGRAMMING THE RINGER".
- Make sure the telephone line cord is plugged firmly into the base unit and the telephone jack. Make sure the power cord is plugged in.
- You may be too far from the base unit.
- You may have too many extension phones on your telephone line to allow all of them to ring. Try unplugging some of the other phones.

YOU HEAR OTHER CALLS WHILE USING YOUR PHONE.

- Disconnect your base unit from the telephone jack, and plug in a regular telephone. If you still hear other calls, the problem is probably in your wiring or local service. Call your local telephone company.

YOU HEAR NOISE IN THE HANDSET, AND NONE OF THE KEYS OR BUTTONS WORK.

Make sure the power cord is plugged in.

COMMON CURE FOR ELECTRONIC EQUIPMENT

Electronics, like people, can sometimes get confused. If the unit does not seem to be responding normally, then try putting the handset in the cradle. If it does not seem to respond after trying this a few times, do the following (in the order listed):

1. Disconnect the power to the base.
2. Disconnect the handset battery.
3. Wait a few minutes.
4. Connect power to the base.
5. Connect the handset battery.
6. Put the handset in the base.

WARRANTY STATEMENT

WHAT DOES OUR WARRANTY COVER?

- Any defect in material or workmanship.

FOR HOW LONG AFTER THE ORIGINAL PURCHASE?

- To the original purchaser only - ONE YEAR.

WHAT WILL VTECH DO?

- At our option, repair or replace your unit.

HOW DO I SEND MY UNIT, IN OR OUT OF WARRANTY?

- Call VTECH Communications customer service for Return Authorization at: 1-800-595-9511
- Properly pack your unit. Include any cables & accessories which were originally provided with the product. We recommend using the original carton and packing materials.
- Include in the package a copy of the sales receipt or other evidence of date of original purchase (if the unit was purchased within the last twelve months).
- Print your name and address, along with a description of the defect, and include this in the package.
- Include payment for any service or repair not covered by warranty, as determined by VTECH Communications.
- Ship the unit via UPS Insured, or equivalent to:

VTECH COMMUNICATIONS
8770 SW NIMBUS AVENUE
BEAVERTON, OREGON 97008

VTECH Communications assumes no responsibility for units sent without prior Return Authorization.

WHAT DOES OUR WARRANTY NOT COVER?

- Batteries
- Damage from misuse, neglect, or acts of nature (lightning, floods, power surges, etc.)
- Products which may have been modified or incorporated into other products
- Products purchased and/or operated outside the USA, its territories, or Canada.
- Products serviced by the owner or a service facility not expressly authorized by VTECH Communications
- Products purchased more than 12 months from current date
- Units purchased in "AS IS" condition, or units purchased as "Distressed Merchandise".

HOW DOES STATE LAW RELATE TO THIS WARRANTY?

- This warranty gives you specific rights. You may also have other rights which vary from state to state.

TECHNICAL SPECIFICATIONS

FREQUENCY CONTROL

Crystal Controlled Dual PLL Synthesizer

TRANSMIT FREQUENCY

Handset: 925.05 MHz to 927.75 MHz
(All ten channels within this range)

Base : 902.3 MHz to 905.0 MHz
(All ten channels within this range)

RECEIVE FREQUENCY

Handset: 902.3 MHz to 905.0 MHz
(All ten channels within this range)

Base : 925.05 MHz to 927.75MHz
(All ten channels within this range)

NOMINAL EFFECTIVE RANGE

Maximum power allowed by FCC and IC. Actual operating range may vary according to environmental conditions at the time of use.

SIZE

Handset: 19 x 6 x 3.5cm (L x W x T)
Maximum (Antenna excluded)

Base : 21.5 x 14.5 x 5cm (L x W x T) Maximum (Antenna excluded)

WEIGHT

Handset: 250 grams
Base : 415 grams

POWER REQUIREMENTS

Handset: Self-contained nickel-cadmium rechargeable battery supply, 3.6V nominal, 600mAh capacity.

Base: 9VDC @ 300mA

MEMORY

Speed Dial : 21 Memory locations,
20 digits per location.

**SPECIFICATIONS ARE TYPICAL
AND MAY CHANGE WITHOUT NOTICE.**